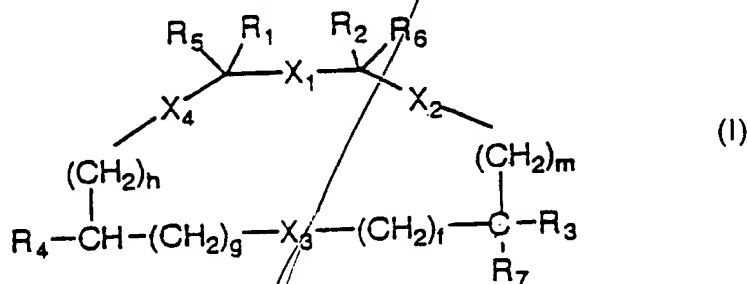


## CLAIMS

1. Monocyclic compounds having the general formula (I):



in which:

$X_1, X_2, X_3, X_4$ , which may be the same or different from one another, represent a group chosen from among  $-\text{CONR}-$ ,  $-\text{NRCO}-$ ,  $-\text{OCO}-$ ,  $-\text{COO}-$ ,  $-\text{CH}_2\text{NR}-$ ,  $-\text{NR}-\text{CH}_2-$ ,  $\text{CH}_2-\text{CH}_2$ , where R is H or a  $\text{C}_{1-3}$  alkyl or benzyl;

f, g, h, m, which may be the same or different from one another, represent a number chosen from among 0, 1 or 2;

$R_1$  and  $R_2$ , which may be the same or different from one another, represent a  $-(\text{CH}_2)_r-\text{Ar}$  group, where  $r = 0, 1, 2$  and where Ar is an aromatic group chosen from among: benzene, naphthalene, thiophene, benzothiophene, pyridine, quinoline, indole, furan, benzofuran, thiazole, benzothiazole, imidazole, and benzo-imidazole, the said Ar group being possibly substituted with a maximum of 2 residues chosen from among  $\text{C}_{1-3}$  alkyl or halo-alkyl,  $\text{C}_{1-3}$  alkoxy,  $\text{C}_{2-4}$  amino-alkoxy, halogen, OH,  $\text{NH}_2$ ,  $\text{NR}_{13}\text{R}_{14}$  where  $\text{R}_{13}$  and  $\text{R}_{14}$ , which may be the same or different from one another, represent hydrogen or  $\text{C}_{1-3}$  alkyl;

$\text{R}_3$  represents a group chosen from among:

- hydrogen

- linear or branched alkyl having the formula  $\text{C}_n\text{H}_{2n+1}$ , with  $n = 1-5$ , cyclo-alkyl or alkylcyclo-alkyl groups having the formula  $\text{C}_n\text{H}_{2n-1}$  with  $n = 5-9$

-  $(\text{CH}_2)_r-\text{Ar}_1$ , where  $r = 0, 1, 2$  and where  $\text{Ar}_1$  is an aromatic group chosen from among: benzene, naphthalene, thiophene, benzothiophene, pyridine, quinoline, indole, furan, benzofuran, thiazole, benzothiazole, imidazole, and benzo-imidazole, the said  $\text{Ar}_1$  group being possibly substituted with a maximum of 2 residues chosen from among  $\text{C}_{1-3}$  alkyl or halo-alkyl,  $\text{C}_{1-3}$  alkoxy or amino-alkoxy, halogen, OH,  $\text{NH}_2$ ,  $\text{NR}_{13}\text{R}_{14}$ , where  $\text{R}_{13}$  and  $\text{R}_{14}$ , which may be the same or different from one another, represent hydrogen or  $\text{C}_{1-3}$  alkyl;

32  $R_4$  represents a group chosen from among:

33 - hydrogen or  $C_{1-6}$  alkyl

34 - L-Q, where L is a chemical bond or a linear or branched  $C_{1-6}$  alkyl residue and  
35 Q is a group chosen from among:

36 i) H, OH,  $OR_9$ ,  $NH_2$ ,  $NR_9R_{10}$ , guanidine, sulphate, phosphonate, phosphate,  
37 where  $R_9$  and  $R_{10}$ , which may be the same or different from one another,  
38 represent a hydrogen,  $C_{1-3}$  alkyl group,  $C_{1-3}$ hydroxyalkyl,  $C_{1-3}$ dihydroxyalkyl,  $C_{1-3}$   
39 alkyl- $CONHR_{12}$ ,  $C_{1-3}$ alkyltetrazole,  $C_{1-3}$ alkyl-COOH or wherein  $R_9R_{10}$  joined  
40 together form with the N-atom a saturated 4-6 membered heterocycle possibly  
41 containing a further heteroatom chosen in the group consisting of N, O, S and  
42 wherein  $R_{12}$  is a mono-, di-, tri-glycosidic group possibly protected with one or  
43 more  $C_{1-3}$ -acyl groups or substituted with amino-groups or  $C_{1-3}$ acylamino-  
44 groups;

45 ii) COOH, tetrazole,  $SO_2NH_2$ ,  $SO_2NHCOOR_8$ ,  $CONHR_8$ ,  $NHCOR_8$ , where  $R_8$   
46 represents a linear or cyclic  $C_{1-6}$  alkyl chain containing one or more polar groups  
47 chosen from among the group: OH,  $NH_2$ ,  $NR_{15}R_{16}$ , COOH,  $CONHR_{12}$ ,  $PO_3H$ ,  
48  $SO_3H$ ,  $OR_{11}$  and where  $R_{15}$  and  $R_{16}$ , which may be the same or different from  
49 one another, represent a hydrogen or  $C_{1-3}$  alkyl group, and where  $R_{11}$  is a  $C_{1-3}$   
50 alkyl or  $C_{2-4}$  amino-alkyl chain,  $R_{12}$  is a mono-, di-, tri-glycosidic group possibly  
51 protected with one or more  $C_{1-3}$  acyl groups or substituted with amino-groups or  
52  $C_{1-3}$ acylamino-groups or  $R_{15}R_{16}$  joined together form with the N-atom a  
53 saturated 4-6 membered heterocycle possibly substituted with  $C_{1-3}$ alkyl-groups  
54 or with saturated 4-6 membered heterocycle-groups containing at least an N-  
55 atom;

56 iii)  $COOR_{17}$ ,  $CONHR_{12}$ ,  $OR_{12}$  where  $R_{12}$  is a mono-, di- or tri-glycoside group  
57 possibly protected with one or more  $C_{1-3}$  acyl groups or substituted with amine  
58 or  $C_{1-3}$  acylamine groups and  $R_{17}$  is a group  $R_{12}$  as above defined or a group  
59  $C_{1-3}$ alkyl,  $C_{1-3}$ alkylphenyl, wherein the phenyl-group can be substituted with a  
60 group OH,  $NO_2$ ,  $NH_2$ , CN,  $CH_3$ , Cl, Br;

61  $R_5$ ,  $R_6$ ,  $R_7$ , which may be the same or different from one another, represent a  
62 hydrogen or  $C_{1-3}$  alkyl group; with the proviso that when  $R_1$  and  $R_2$  are benzyl

31a

- 63 or 4-hydroxybenzyl then R<sub>3</sub> and R<sub>4</sub> are not isopropyl, their pharmaceutically  
64 acceptable salts, their enantiomers and mixture thereof.

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- 1 2. Compounds according to Claim 1, in which:  
2 f, g, h, m, which may be the same or different from one another, may be 0 or 1;  
3  $R_1$  and  $R_2$ , which may be the same or different from one another, represent the  
4 side chain of a natural amino acid chosen from among tryptophan, phenyl  
5 alanine, tyrosine, histidine or the side chain of a non-natural amino acid chosen  
6 in the group:  
7 tryptophan and phenyl alanine, either mono- or di-substituted with residues  
8 chosen from among  $C_{1-3}$  alkyl or halo-alkyl,  $C_{1-3}$  alkoxy or amino-alkoxy,  
9 halogen, OH,  $NH_2$ ,  $NR_{13}R_{14}$ , where  $R_{13}$  and  $R_{14}$ , which may be the same or  
10 different from one another, represent a hydrogen or  $C_{1-3}$  alkyl group;  
11  $R_3$  represents a group chosen from among:  
12 - linear or branched alkyl having the formula  $C_nH_{2n+1}$ , with  $n = 1-5$  (chosen in the  
13 group consisting of methyl, ethyl, propyl, isopropyl, n-butyl, t-butyl) cycloalkyl or  
14 alkylcycloalkyl of formula  $C_nH_{2n-1}$  with  $n = 5-9$  (chosen in the group consisting of  
15 cyclopentyl, cyclohexyl, methylcyclohexyl)  
16 -  $(CH_2)_r-Ar_1$ , where  $r = 1$  or  $2$  and where  $Ar_1$  is an aromatic group chosen in the  
17 group consisting of:  $\alpha$ -naphthyl,  $\beta$ -naphthyl, phenyl, indole, the said  $Ar_1$  group  
18 being possibly substituted with a maximum of 2 residues chosen in the group  
19 consisting of:  $C_{1-3}$  alkyl,  $CF_3$ ,  $C_{1-3}$  alkoxy, Cl, F, OH,  $NH_2$ ;  
20  $R_4$  represents an L-Q group where:  
21 L is a chemical bond or  $CH_2$ , and  
22 Q is a group chosen from among:  
23 - OH,  $NH_2$ ,  $NR_9R_{10}$ ,  $OR_{11}$ , and where  $R_9$  and  $R_{10}$ , which may be the same or  
24 different from one another, represent a hydrogen or  $C_{1-3}$  alkyl group,  $C_{1-3}$ hydroxy  
25 alkyl,  $C_{1-3}$ dihydroxyalkyl,  $C_{1-3}$ alkyl-CONHR<sub>12</sub> (wherein  $R_{12}$  is a monoglycosidic  
26 group derived from D or L pentoses or hexoses (chosen in the group consisting  
27 of ribose, arabinose, glucose, galactose, fructose, glucosamine, galactosamine  
28 and their N-acetylated derivatives)),  $C_{1-3}$ alkyltetrazole,  $C_{1-3}$ alkyl-COOH or  
29 wherein  $R_9R_{10}$  are joined together to form with the N atom a morpholine or a  
30 piperidine ring and where  $R_{11}$  is a  $C_{1-3}$  alkyl chain, or a  $C_{2-4}$  amino-alkyl chain;

- 31 -  $\text{NHCOR}_8$  wherein  $R_8$  is a cyclohexane containing from 2 to 4 OH groups, a  $C_{1-6}$   
 32 alkylchain containing a polar group (chosen in the group consisting of  $\text{NH}_2$ ,  
 33  $\text{COOH}$ ,  $\text{CONHR}_{12}$  (wherein  $R_{12}$  is as hereabove defined) or [1,4']bipiperidine)  
 34 -  $\text{COOH}$ ,  $\text{COOR}_{17}$  or  $\text{CONHR}_{12}$ , wherein  $R_{12}$  is as hereabove defined and  $R_{17}$  is  
 35 as  $R_{12}$  or a group 4-nitrobenzyl.  
 36 -  $R_5$ ,  $R_6$ ,  $R_7$  are H.

37 in which the carbon atom that carries the substituents  $R_3$  and  $R_7$  has  
 38 configuration R.

1 3. Compounds according to Claim 2, as specified below:

- 2 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 3 Cyclo{-Suc-Trp-Phe-[(S)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 4 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>11</sub>)-CH<sub>2</sub>-NH-]}
- 5 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(4-OCH<sub>3</sub>))-CH<sub>2</sub>-NH-]}
- 6 Cyclo{-Suc-Trp(5F)-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 7 Cyclo{-Suc-Trp(Me)-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 8 Cyclo{-Suc-Phe(3,4-Cl)-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 9 Cyclo{-Suc-Trp-Phe(3,4-Cl)-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 10 Cyclo{-Suc-Trp-Tyr-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 11 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>3</sub>-3,4-diCl)-CH<sub>2</sub>-NH-]}
- 12 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>-4-OH)-CH<sub>2</sub>-NH-]}
- 13 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 14 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-2-naphthyl)-CH<sub>2</sub>-NH-]}
- 15 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-indol-3-yl)-CH<sub>2</sub>-NH-]}
- 16 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-5-F-indol-3-yl)-CH<sub>2</sub>-NH-]}
- 17 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>-3-F)-CH<sub>2</sub>-NH-]}
- 18 Cyclo{-Suc-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>3</sub>-3,4-diF-CH<sub>2</sub>-NH)-]}
- 19 Cyclo{-Suc-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>-4-CF<sub>3</sub>-CH<sub>2</sub>-NH)-]}
- 20 Cyclo{-Suc-Trp-Phe-[(R)-NH-CH<sub>2</sub>-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-NH-]}
- 21 Cyclo{-Suc-Trp-Phe-[(S)-NH-CH<sub>2</sub>-CH(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)-NH-]}
- 22 Cyclo{-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]-(CH<sub>2</sub>)<sub>3</sub>CO-}
- 23 Cyclo{-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-N(CH<sub>3</sub>)]-(CH<sub>2</sub>)<sub>3</sub>CO-}
- 24 Cyclo{-Suc[1(S)-NH<sub>2</sub>]-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}

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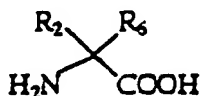
- 25 Cyclo{-Suc[1(R)-NH<sub>2</sub>]-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}
- 26 Cyclo{-Suc[2(S)-NH<sub>2</sub>]-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}
- 27 Cyclo{-Suc[2(R)-NH<sub>2</sub>]-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}
- 28 Cyclo{-Suc[1(S)-NH(CH<sub>3</sub>)]-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}
- 29 Cyclo{-Suc[1-COO(CH<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>-4-NO<sub>2</sub>)]-Trp-Phe-[(R)NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}
- 30 Cyclo{-Suc(1-COOH)-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 31 Cyclo{-Suc(1-COOH)-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 32 Cyclo{-Suc(1-OH)-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 33 Cyclo{-Suc(2-COOH)-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 34 Cyclo{-Suc(2-OH)-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH-]}
- 35 Cyclo{-Suc[1(S)-(2H-tetrazolyl-5-ylmethyl)amino]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-
- 36 C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-}.TFA
- 37 Cyclo{-Suc[1(S)-(morpholin-4-yl)]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-
- 38 }.TFA
- 39 Cyclo{-Suc[1(S)-N(CH<sub>3</sub>)<sub>2</sub>]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}.TFA
- 40 Cyclo{-Suc[1(S)-(piperidin-4-yl)]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>NH]-}.TFA
- 41 Cyclo{-Suc[1(S)-(N(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>2</sub>)]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-
- 42 NH]-}.TFA
- 43 Cyclo{-Suc[1(S)-(N(CH<sub>2</sub>CH(OH)CH<sub>2</sub>OH)]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-
- 44 NH]-}.TFA
- 45 Cyclo{-Suc[1(S)-(3-carboxypropanoyl)amino]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-
- 46 CH<sub>2</sub>-NH]-}.
- 47 Cyclo{-Suc[1(S)-[3-N'-(β-D-glucopiranos-1-yl)-carboxamidopropanoyl]amino]-
- 48 Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-}
- 49 Cyclo{-Suc[1(S)-[(carboxymethyl)amino]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-
- 50 NH]-} TFA
- 51 Cyclo{-Suc[1(S)-[N'-(β-D-glucopiranos-1-yl)-carboxyamidomethyl]amino]-Trp-
- 52 Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-} TFA
- 53 Cyclo{-Suc[1(S)-(chiny)amine]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-}
- 54 Cyclo{-Suc[1(S)-(4-aminobutanoyl)amino]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-
- 55 NH]-} TFA

56 Cyclo{-Suc[1(S)-[(1,4')bipiperidin-1-yl]acetamido]-Trp-Phe-[(R)-NH-CH(CH<sub>2</sub>-  
 57 C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-} TFA  
 58 Cyclo{-Suc[1-N-(β-D-glucopiranos-1-yl)-carboxyamido]-Trp-Phe-[(R)-NH-  
 59 CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-}  
 60 Cyclo{-Suc[1(S)-[N'-(2-N-acetyl-β-D-glucopiranos-1-yl)-carboxyamido]-Trp-Phe-  
 61 [(R)-NH-CH(CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-NH]-}.

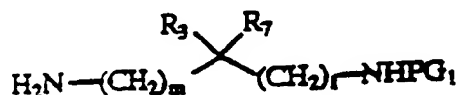
1 4. Process for the synthesis of a compound of general formula (I), where X<sub>1</sub>, X<sub>2</sub>,  
 2 X<sub>3</sub>, X<sub>4</sub> are CONH and the other substituents are as defined in Claim 1, where:  
 3 a) the suitably protected amino acids (1), (2) and (4)



(1)

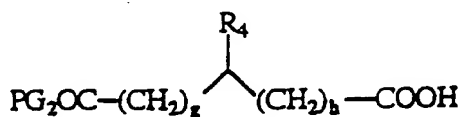


(2)



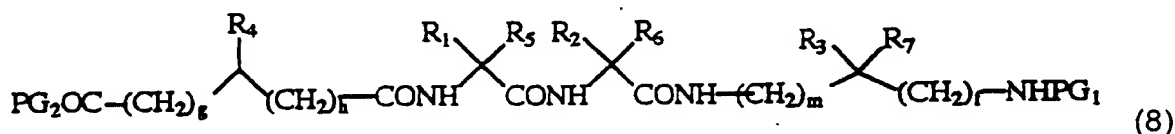
(4)

9 are made to react, as shown in the diagram, with the derivative of the protected  
 10 succinic acid (7)



(7)

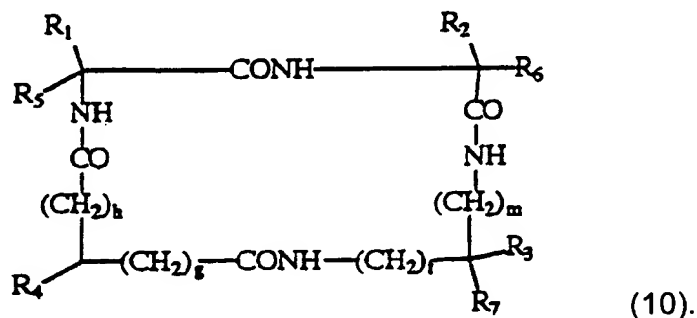
16 thus obtaining the linear compound (8)



21 b) the linear compound 8, is deprotected and cyclized to yield the final  
 22 monocyclic compound (10)

of formula (1)

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5. Pharmaceutical compositions containing as active principle the compounds of general formula (I) according to Claim 1 in combination with pharmaceutically acceptable carriers or excipients.

6. Pharmaceutical compositions according to Claim 5, to be used as tachykinin antagonists.

7. Pharmaceutical compositions according to Claim 6, to be used as antagonists of the human NK-2 receptor.

8. Pharmaceutical compositions according to Claim 7, to be used in the treatment of the bronchospastic and inflammatory component of asthma, coughing, pulmonary irritation, intestinal spasms, spasms of the biliary tract, local spasms of the bladder and of the ureter during cystitis, and kidney infections and colics.

9. Pharmaceutical compositions according to Claim 7, to be used as anxiolytics.

10. Use of a compound according to Claim 1 as tachykinin antagonist.

11. Use of a compound according to Claim 1 as NK-2 antagonist.

12. Use of a compound according to Claim 1 in the treatment of the bronchospastic and inflammatory component of asthma, coughing, pulmonary irritation, intestinal spasms, spasms of the biliary tract, local spasms of the bladder and of the ureter during cystitis, and kidney infections and colics.

13. Use of a composition according to Claim 1 as an NK-2 antagonist for the treatment of anxiety syndromes.

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- 1 14. Method for the treatment of the bronchospastic and inflammatory  
2 component of asthma, coughing, pulmonary irritation, intestinal spasms,  
3 spasms of the biliary tract, local spasms of the bladder and of the ureter during  
4 cystitis, and kidney infections and colics, in which quantities of between 0.02  
5 and 10 mg/kg of body weight of active principle consisting of products of  
6 formula (I), according to Claim 1, are administered to the patient.

*Add a3*

*Add B10*

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